

Appl No. 09/812,089

Reply to Office action of September 30, 2004

Amendments to the Specifications:

Please replace the paragraph on page 3, beginning on line 25, with the following paragraph.

In accordance with the present invention, a handheld mobile monitoring device is disclosed. As shown in Fig. 3, the present device 30 is preferably about the size of a large calculator. A radio receiver 32 is provided for monitoring a wireless signal across one or more wireless channels. In the preferred embodiment, the radio receiver ~~[[12]]~~ 32 is a wireless PC Card of the type used for monitoring wireless operating under the IEEE protocols, namely in the unlicensed 2.4 GHz and 5 GHz frequency bands. However, it should be understood the invention could easily be adapted to scan any desired wireless frequency band, without departing from the invention.

Please replace the paragraph on page 4, beginning on line 9, with the following paragraph.

A processing circuit 34 is also provided to evaluate the wireless signal to observe a predetermined parameter of the signal. For example, at a given location, the circuit 34 could be used to identify the wireless access points 12 and wireless clients 16 that are transmitting and receiving at that location. The processing circuit 34 can detect the ~~[[unit]]~~ MAC address, 10 of an AP 14 or client 16, within network 10. In this way, the invention can identify rogues attempting to gain access to the WLAN. The invention can detect other parameters of the signal, such as AP association, Service Set Identifier (SSID), Wired Equivalent Privacy (WEP) status, data rate and transmission power strength and any other signal parameters that may occur to those skilled in the art. In this way, the present invention could be used to locate gaps 20 in the signal, by finding regions where such parameters cannot be detected. In regions where these

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parameters can be detected, the invention would evaluate the signal to determine the quality of the connection between clients and APs at that location.